



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

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## SPECIFICATION SHEET

### CALCIUM LACTATE-GLUCONATE (GLOCAL®)

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
CLGGIP	2998	299-28-5 814-80-2	October 27, 2011	JP	No. 3	RVK

<b>CHARACTERISTICS:</b>	White to off-white, spray dried, free flowing powder. Water soluble (22 g in 100 ml @ 20° C). Also known as calcium lacto-gluconate. Made in class 100K facility with injection grade water. Approximately 7.5 grams of GLOCAL® provides 100% of RDA of Calcium
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<b>SPECIFICATIONS:</b>	Assay ("as is" basis)	96.0-102.0%
	Calcium content ("as is" basis)	12.39-13.17%
	Loss on drying (105°C for 2 hrs)	6.0% max
	pH (10% solution in water at 25°C)	6.0-8.0
	Arsenic	1 ppm max
	Lead	1 ppm max
	Heavy metals	10 ppm max
	Fluoride	15 ppm max
	Chloride	500 ppm max
	Sulphate	500 ppm max
	Iron	50 ppm max
	Clarity of 10% w/v solution in water at 25°C	Clear to nearly clear
	Color of 10% w/v solution in water at 25°C	Colorless to nearly colorless
	Particle size passing thru U.S 80 mesh	90% min w/w
	Bulk density	300-650 kg/m <sup>3</sup>
	Total viable aerobic count	500 cfu/g max
	Yeast and mold	50 cfu/g max
	Enterobacteriaceae	Absent in 1g
	Escherichia coli	Absent in 10g
Salmonella	Absent in 50 g	
Staphylococcus aureus	Absent in 10g	
Pseudomonas aeruginosa	Absent in 10g	

<b>PACKAGING:</b>	Various packaging combinations are available depending upon customer requirements. Standard packaging is 25 kg fiber drums with inner HMHDPE liners. 18 drums per pallet.
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<b>APPLICATIONS:</b>	As a highly soluble, low tasting source of calcium in any food, beverage, and nutritional supplement applications. Low viable aerobic count, trace minerals and neutral pH make this most advantageous for beverages.
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<b>SPECIAL STORAGE INSTRUCTIONS:</b>	Store in well closed container in dry location at ambient room temperature not exceeding 25 °C, protected from direct sunlight and moisture, unless other specified.
<b>OTHER:</b>	<p>The manufacturing site is ISO 9000-2004, ISO 14000-2006, WHO cGMP, HACCP, Kosher, Halal certified and has achieved a COS issued by the EDQM. It is certified by NQA to the requirement of HACCP under the Codex Alimentarius. It is a member of the Global Alliance for Improved Nutrition (GAIN), and supports the UNGC, which encourages businesses worldwide to adopt sustainable and socially responsible policies. Global Calcium's plant is self powered by wind energy generating 100% of their energy needs.</p> <p>Product can be labeled as Calcium Gluconate and Calcium Lactate or as Calcium Lactate Gluconate.</p>
<b>SHELF LIFE:</b>	Material should be re-tested against certificate of analysis three years from date of manufacture.